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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/777,755	02/06/2001	Nigel Peter Topham	0808.65202	55202 4475	
24978 759	90 10/28/2003		EXAMI	NER	
GREER, BUR		KIM, KENNETH S			
300 S WACKER DR 25TH FLOOR			ART UNIT	PAPER NUMBER	
CHICAGO, IL 60606			2181		
			DATE MAILED: 10/28/2003	2	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicati n N .		Applicant(a)	-			
				Applicant(s)	a			
Office Action Sum	09/777,755		TOPHAM, NIGEL PETER					
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The MAII INC DATE 64	e communication and	Kenneth S KIM	chast with th	2181				
The MAILING DATE f thi Period for Reply	э сонининсайон арр	eais un the C-Vel	SIIEE (WITH THE C	orresponaenc addr	ess			
A SHORTENED STATUTORY F THE MAILING DATE OF THIS (- Extensions of time may be available under after SIX (6) MONTHS from the mailing dat - If the period for reply specified above is les - If NO period for reply is specified above, th - Failure to reply within the set or extended p - Any reply received by the Office later than the earned patent term adjustment. See 37 CF Status	communication. the provisions of 37 CFR 1.13 te of this communication. s than thirty (30) days, a reply e maximum statutory period w period for reply will, by statute, three months after the mailing	36(a). In no event, hower within the statutory min vill apply and will expire cause the application to	ever, may a reply be tin imum of thirty (30) day SIX (6) MONTHS from b become ABANDONE	nely filed s will be considered timely. the mailing date of this comi	munication.			
1) Responsive to communic	cation(s) filed on 06 F	ehruan/ 2001						
2a) ☐ This action is FINAL .		is action is non-fi	nal					
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3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims								
4)⊠ Claim(s) <u>1-28</u> is/are pend	• ,,				\wedge			
4a) Of the above claim(s) is/are withdrawn from consideration.								
5) Claim(s) is/are allow	wed.							
6) Claim(s) is/are reje				(1)				
7) Claim(s) is/are obje			C ₆	KÉNNETH S. KIM RIMARY EXAMINER				
8) Claim(s) <u>1-28</u> are subject	to restriction and/or e	lection requirem	ent.	THE PARTITION				
Application Papers	al to be the e							
9)☐ The specification is objecte	•							
10) The drawing(s) filed on			•					
Applicant may not request t								
11) The proposed drawing corr				ved by the Examiner.				
If approved, corrected drawings are required in reply to this Office action. 12)☐ The oath or declaration is objected to by the Examiner.								
Priority under 35 U.S.C. §§ 119 an	•	an III IGI .						
_		priority and as 05	1160 64400	\				
13) Acknowledgment is made		Priority under 35	U.S.C. 9, 119(a)-(a) or (t).				
a) All b) Some * c)		hous been and						
	 Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No 							
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	ed copies of the priori the International Bur office action for a list o	eau (PCT Rule 1	7.2(a)).		age			
14) ☐ Acknowledgment is made of					oplication).			
a) ☐ The translation of the f	foreign language prov	visional application	on has been rece	eived.	,			
Attachment(s)								
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawin 3) Information Disclosure Statement(s) (P		5) 🔲		(PTO-413) Paper No(s). Patent Application (PTO-1				
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Application/Control Number: 09/777,755

Art Unit: 2181

Claims 1-28 are presented for examination.
 Applicant is reminded that claims 26-29 have been renumbered to claims 25-28.

- 2. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1-25 and 28, drawn to an apparatus for assigning sequence numbers to values produced in the order of issuance of the value producing instructions, classified in class 712, subclass 214.
 - II. Claims 26 and 27, drawn to an apparatus for allocating registers to values produced, renaming registers when software pipeline boundary is crossed, and skipping allocation when zero iteration loop is found, classified in class 712, subclass 241.
- 3. The inventions are distinct, each from the other because of the following reasons: Inventions of group I and group II are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the invention of group I can be used in a system without the register renaming when software boundary is crossed. The subcombination has separate utility such as use in a system without the sequence number assigning.
- 3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification and the search required for one group is not required for the other group, restriction for examination purposes as indicated is proper.
- 4. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth S KIM whose telephone number is (703) 305-9693. The examiner can normally be reached on M-F (8:30-17:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart can be reached on (703) 305-4815. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9306 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

October 14, 2003

PRIMARY EXAMINER